

Appln No. 09/880,516

Amdt date March 29, 2004

Reply to Office action of December 17, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An integrated display system comprising:

a first display having a first display area that faces a user;

a second display having ~~the~~ a second display area that faces a generally vertical direction; and

a transmissive/reflective mirror having a mirror face between the first display and the user,

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wherein ~~images~~ a first image from the first display at least partially ~~pass~~ passes through the mirror face towards the user, and ~~images~~ a second image from the second display ~~are is~~ at least partially reflected by the mirror face towards the user, so as to present a composite image comprising the ~~images~~ from the displays first image and the second image to the user,

wherein the first image partially overlaps with the second image to form the composite image which is larger than either one of the first and second images because a portion of the first and second images is not overlapped in the composite image, and

wherein the first image is edge blended with the second image so that the composite image appears as an apparently seamless image.

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2. (Currently Amended) The integrated display system according to claim 1, wherein the second display area ~~of the second display~~ faces a generally upward direction towards the transmissive/ reflective mirror.

3. (Currently Amended) The integrated display system according to claim 1, wherein the second display area ~~of the second display~~ faces a generally downward direction towards the transmissive/reflective mirror.

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4. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more~~ a third displays, each display having the a third display area that faces the user, wherein a third image from the third display at least partially passes through the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the first and third display areas of the first and third displays are on substantially the same plane, so that the composite image appears substantially flat.

5. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more~~ a third displays, each display having the a third display area that faces the user, wherein a third image from the third display at least partially passes through the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the first and third display areas of the first and third displays are oriented at an angle with respect to one another, so as to make the composite image appear to be on an angled display.

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6. (Currently Amended) The integrated display system according to claim 5, wherein the first, second and third images ~~from the first, second and third displays~~ appear to the user to be substantially equidistant from an eye point of the user.

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7. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more third displays, each~~ a third display having ~~the~~ a third display area that faces the user, wherein a third image from the third display at least partially passes through the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the first and third display areas ~~of the first and third displays~~ are oriented at an angle with respect to one another, so as to make the composite image appear to be on a curved screen.

8. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more fourth displays, each~~ a third display having ~~the~~ a third display area that faces the generally vertical direction, wherein a third image from the third display is at least partially reflected by the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the second and third display areas ~~of the second and fourth displays~~ are on substantially the same plane, so that the composite image appears substantially flat.

9. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more fourth displays, each~~ a third display having the display area

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that faces ~~the~~ a generally vertical direction, wherein a third image from the third display is at least partially reflected by the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the second and third display areas of the second and fourth displays are oriented at an angle with respect to one another, so as to make the composite image appear to be on an angled display.

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10. (Currently Amended) The integrated display system according to claim 9, wherein the first, second and third images from the first, second and fourth displays appear to the user to be substantially equidistant from the user.

11. (Currently Amended) The integrated display system according to claim 1, the system further comprising ~~one or more fourth displays, each~~ a third display having the a third display area that faces the a generally vertical direction, wherein a third image from the third display is at least partially reflected by the mirror face towards the user, wherein the composite image further comprises the third image, and wherein the second and third display areas of the second and fourth displays are oriented at an angle with respect to one another, so as to make the composite image appear to be on a curved screen.

12. (Canceled)

13. (Canceled)

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14. (Original) The integrated display system according to claim 1, the system further comprising distortion control circuitry, wherein the distortion control circuitry is used to modify the images in order to correct aberration due to mechanical or optical misalignment.

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15. (Original) The integrated display system according to claim 1, the system further comprising a pair of electronic shutter glasses to provide 3-D stereoscopic view of objects displayed on the composite image.

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16. (Original) The integrated display system according to claim 13, wherein the pair of electronic shutter glasses comprises liquid crystal shutter lenses.

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17. (Original) The integrated display system according to claim 1, the system further comprising polarized glasses, wherein polarization of light for the images transmitted through or reflected from the transmissive/reflective mirror is sequentially altered and resulting images are viewed by the user through the polarized glasses in order to see 3-D stereoscopic view of objects displayed on the composite image.

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18. (Currently Amended) The integrated display system according to claim 1, further comprising a first image source for providing the ~~images~~ first image to the first display and a second image source for providing the ~~images~~ second image to the second display, wherein the composite image comprises a single continuous image.

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~~19.~~ (Canceled)

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~~20.~~ (Original) The integrated display system according to claim 1, wherein at least one of the first and second displays is coupled to a plurality of image sources, and wherein the system further comprises a switch for switching between images from the image sources.

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~~21.~~ (Currently Amended) A method of generating a composite image using a transmissive/reflective mirror, the method comprising the steps of:

projecting a first image towards a user through the transmissive/reflective mirror; and

applying a second image at the transmissive/reflective mirror for the second image to be reflected towards the user,

wherein the images appear as a composite image to the user,

wherein the first image partially overlaps with the second image to form the composite image which is larger than either one of the first and second images because a portion of the first and second images is not overlapped in the composite image, and

wherein the first image is edge blended with the second image so that the composite image appears as an apparently seamless image.

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~~22.~~ (Original) The method according to claim ¹⁸~~21~~, wherein the second image is applied at the transmissive/reflective mirror in a generally downward direction.

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~~23~~. (Original) The method according to claim ¹⁸~~21~~, wherein the second image is applied at the transmissive/reflective mirror in a generally upward direction.

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~~24~~. (Currently Amended) The method according to claim ¹⁸~~21~~, the method further comprising the step of:

projecting ~~one or more~~ a third ~~images~~ image towards the user through the transmissive/reflective mirror,

wherein the first, second and third images are applied such that the first, second and third images appear as a substantially flat composite image to the user.

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~~25~~. (Currently Amended) The method according to claim ¹⁸~~21~~, the method further comprising the step of:

projecting ~~one or more~~ a third ~~images~~ image towards the user through the transmissive/reflective mirror,

wherein the first, second and third images are applied such that the first, second and third images in the composite image appear to be oriented at an angle with respect to one another.

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~~26~~. (Original) The method according to claim ²²~~25~~, wherein the first, second and third images appear to the user to be substantially equidistant from the user.

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~~27~~. (Currently Amended) The method according to claim ¹⁸~~21~~, the method further comprising the step of:

projecting ~~one or more~~ a third ~~images~~ image towards the user through the transmissive/reflective mirror,

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wherein the first, second and third images are applied such that the first, second and third images in the composite image appear to the user to be on a curved screen.

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28. (Currently Amended) The method according to claim 27, the method further comprising the step of:

applying ~~one or more fourth images~~ a third image at the transmissive/reflective mirror for the ~~fourth images~~ third image to be reflected towards the user,

wherein the first, second and ~~fourth~~ third images are applied such that the first, second and ~~fourth~~ third images appear as a substantially flat composite image to the user.

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29. (Currently Amended) The method according to claim 27, the method further comprising the step of:

applying ~~one or more fourth images~~ a third image at the transmissive/reflective mirror for the ~~fourth images~~ third image to be reflected towards the user,

wherein the first, second and ~~the fourth~~ third images are applied such that the first, second and ~~fourth~~ third images in the composite image appear to be oriented at an angle with respect to one another.

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30. (Currently Amended) The method according to claim 25, wherein the first, second and ~~fourth~~ third images appear to the user to be substantially equidistant from the user.

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31. (Currently Amended) The method according to claim 27, the method further comprising the step of:

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... applying ~~one or more fourth images~~ a third image at the transmissive/reflective mirror for the ~~fourth images~~ third image to be reflected towards the user,

wherein the first, second and ~~fourth~~ third images are applied such that the first, second and ~~fourth~~ third images in the composite image appear to the user to be on a curved screen.

32. (Canceled)

33. (Canceled)

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34. (Original) The method according to claim ~~21~~¹⁸, the method further comprising the step of performing distortion control to modify the images in order to correct aberration due to mechanical or optical misalignment.

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35. (Original) The method according to claim ~~21~~¹⁸, wherein the first and second images comprise 3-D stereoscopic view of objects when viewed using a pair of electronic shutter glasses.

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36. (Original) The method according to claim ~~21~~¹⁸, wherein polarization of light for the images transmitted through or reflected from the transmissive/reflective mirror is sequentially altered and resulting images are viewed by the user through polarized glasses in order to see 3-D stereoscopic view of objects displayed on the composite image.

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37. (New) An integrated display system comprising:
a first display having a first display area that faces a user;

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a second display having a second display area that faces a generally vertical direction; and

a transmissive/reflective mirror having a mirror face between the first display and the user,

wherein a first image from the first display at least partially passes through the mirror face towards the user, and a second image from the second display is at least partially reflected by the mirror face towards the user, so as to present a composite image comprising the first image and the second image to the user, wherein the composite image is larger than either one of the first and second images, and

wherein the first display area and the second display area are oriented so as to make the composite image appear to be on an angled display.

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32 ~~38~~. (New) The integrated display system according to claim 37, the system further comprising a third display having a third display area that faces the user, wherein a third image from the third display at least partially passes through the mirror face toward the user, wherein the composite image further comprises the third image, and wherein the first and third display areas are oriented at an angle with respect to one another, so as to make the composite image appear to be on the angled display.

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32 ~~39~~. (New) The integrated display system according to claim 37, the system further comprising a third display having a third display area that faces a generally vertical direction, wherein a third image from the third display is at least partially reflected by the mirror face toward the user, wherein the

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composite image further comprises the third image, and wherein the second and third display areas are oriented at an angle with respect to one another, so as to make the composite image appear to be on the angled display.

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40. (New) A method of generating a composite image using a transmissive/reflective mirror, the method comprising the steps of:

projecting a first image towards a user through the transmissive/reflective mirror; and

applying a second image at the transmissive/reflective mirror for the second image to be reflected towards the user,

wherein the images appear as a composite image, which is larger than either one of the first and second images, to the user, and

wherein the first and second images are applied such that the first and second images in the composite image appear to be at an angle with respect to one another.
